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Novel 5-oxy-2-phenyl-pyrimidine(s) - useful in liq. crystal mixts., e.g. for super-twist displays

Assignee: **MERCK PATENT GMBH** Standard company (MERE...)
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Accession / Update: **1991-066393 / 1991110**

IPC Code: **C07D 213/65 ; C07D 239/34 ; C09K 19/34 ; G02F 1/13 ;**

Derwent Classes: **E13; L03; P81; U11; V07;**

Manual Codes: **E07-D12(Pyrimidine) , L03-D01D1(Liquid crystal compounds) , U11-A03(Liquid crystal, electrochromic materials) , V07-K(Controlling light)**

Derwent Abstract

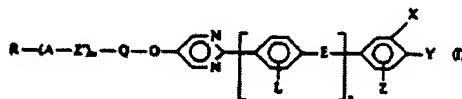
DERWENT
RECORD

(DE3928267A) Novel 5-oxy-2-phenylpyrimidines of formula (I) are claimed as is their use in liq. crystal media esp. where (I) is of a mixt. of liq. crystal components. R = H or alk(en)yl or oxaalkyl with up to 12C, A = opt. F substd. 1,4-phenylene, trans-1,4-cyclohexylene, 1,3-cyclobutylene, Z' = CH₂CH₂-, -CH₂O-, -OCH₂-, -CO-, -O.CO-, or a bond, Q = -CH₂- or -CO-, L = H or F, E = -CH₂CH₂-, (II), -C=C- (III) or a bond, n = 0 or 1, m = 0 or 1 or, when n = 0 also 2, X and Z = H or F, and Y = CN, NCS, F, Cl, CF₃, CHF₂, OCHF₂ or OCF₃.

USE/Advantage - (I) are similar to the cpds. of DE3315295 and are stable liq. crystal or mesogenic cpds. with a relatively high double refraction. They can be used to make stable liq. crystal media with relatively high optical and positive dielectric-anisotropy esp. being used in mixts. for STN displays. In STN displays their use results in low temp. dependence of threshold voltage, high elec. resistance, and good low temp. stability. Also they show good miscibility with other components.

Abstract info: **DE3928267A: Dwg.0/0M**

Images:



Family:

Patent	Pub. Date	DW Update	Pages	Language	IPC Code
DE3928267A *	Feb. 28, 1991	1991110		German	C07D 213/16
Local apps.: DE1989003928267 ApplDate:1989-08-26 (89DE-3928267)					
JP4501574W =	March 19, 1992	199218	9	English	C07D 213/65
Local apps.: Based on WO09102726 (WO 9102726) JP1990000511994 ApplDate:1990-08-18 (90JP-0511994)					
EP0440771A =	Aug. 14, 1991	199133		English	C07D 213/65
Des. States: (R) DE GB Local apps.: EP1990000912908 ApplDate:1990-08-18 (90EP-0912908)					
WO9102726A =	March 07, 1991	199112		English	C07D 213/65
Des. States: (N) JP US (R) AT BE CH DE DK ES FR GB IT LU NL SE Local apps.:					

Priority Number:

Application Number	Application Date	Original Title
DE1989003928267	Aug. 26, 1989	5-OXY-2-PHENYLPYRIMIDINE UND FLUESSIGKRISTALLINES MEDIUM

Citations:

CH0622548 : FLUESSIGKRISTALLMISCHUNGEN.
DE2547737 : PHENYLPYRIMIDINE
DE2641724 : PYRIMIDINDERIVATE
EP0193191 : PYRIMIDINE DERIVATIVE AND LIQUID CRYSTAL COMPOSITION CONTAINING SAME

[EP0227004](#) : LIQUID CRYSTALLINE ETHANE DERIVATIVES, THEIR PREPARATION AND THE LIQUID CRYSTAL COMPOSITIONS CONTAINING SAME
[EP0387032](#) : TRIFLUOROBENZENE DERIVATIVES AND LIQUID CRYSTAL COMPOSITIONS CONTAINING THE SAME
[JP56002368](#) : NEMATIC LIQUID CRYSTAL COMPOSITION
[JP56002369](#) : NEMATIC LIQUID CRYSTAL COMPOSITION
[JP56002376](#) : NEMATIC LIQUID CRYSTAL COMPOSITION
[JP62192368](#) : FLUOROALKYLPYRIMIDINE DERIVATIVE
[WO8704426](#) : VINYL COMPOSITIONS
[WO8902884](#) : SUBSTITUTED PHENYLTRIFLUORMETHYLETHERS
[WO9001021](#) : FLUORINATED ALKOXYL COMPOUNDS
 - 4.Jnl.Ref

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C1991-028092	C		
N1991-051378	N		
2 items found			

Title Terms: NOVEL OXY PHENYL PYRIMIDINE USEFUL LIQUID CRYSTAL MIXTURE SUPER TWIST DISPLAY

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